

MITROFANOV, V.S.; RAZUMOVA, I.L.

Pathomorphology of experimental tuberculosis in white mice treated with thianide. Probl. tub. 41 no.5:65-71 '63. (MIRA 17:1)

1. Iz otdela khimioterapii (zav. - prof. A.M. Chernukh) Instituta farmakologii i khimioterapii (dir. - deystvitel'nyy chlen AMN SSSR prof. V.V. Zakusov) AMN SSSR, Moskva.

SHAROV, N.A.; MITROFANOV, V.S.

Study of the local irritating action of trimecaine, a new
Russian anesthetic. Trudy SMI 15:247-251 '62 (MIRA 1967)

1. Iz kliniki gosital'noy khirurgii (zav. - prof. A.N.
Kartavenko) i laboratorii obshchey farmakologii (zav. - prof.
G.A. Ionomarev [deceased]) Instituta farmakologii i khimii
terapii AMN SSSR.

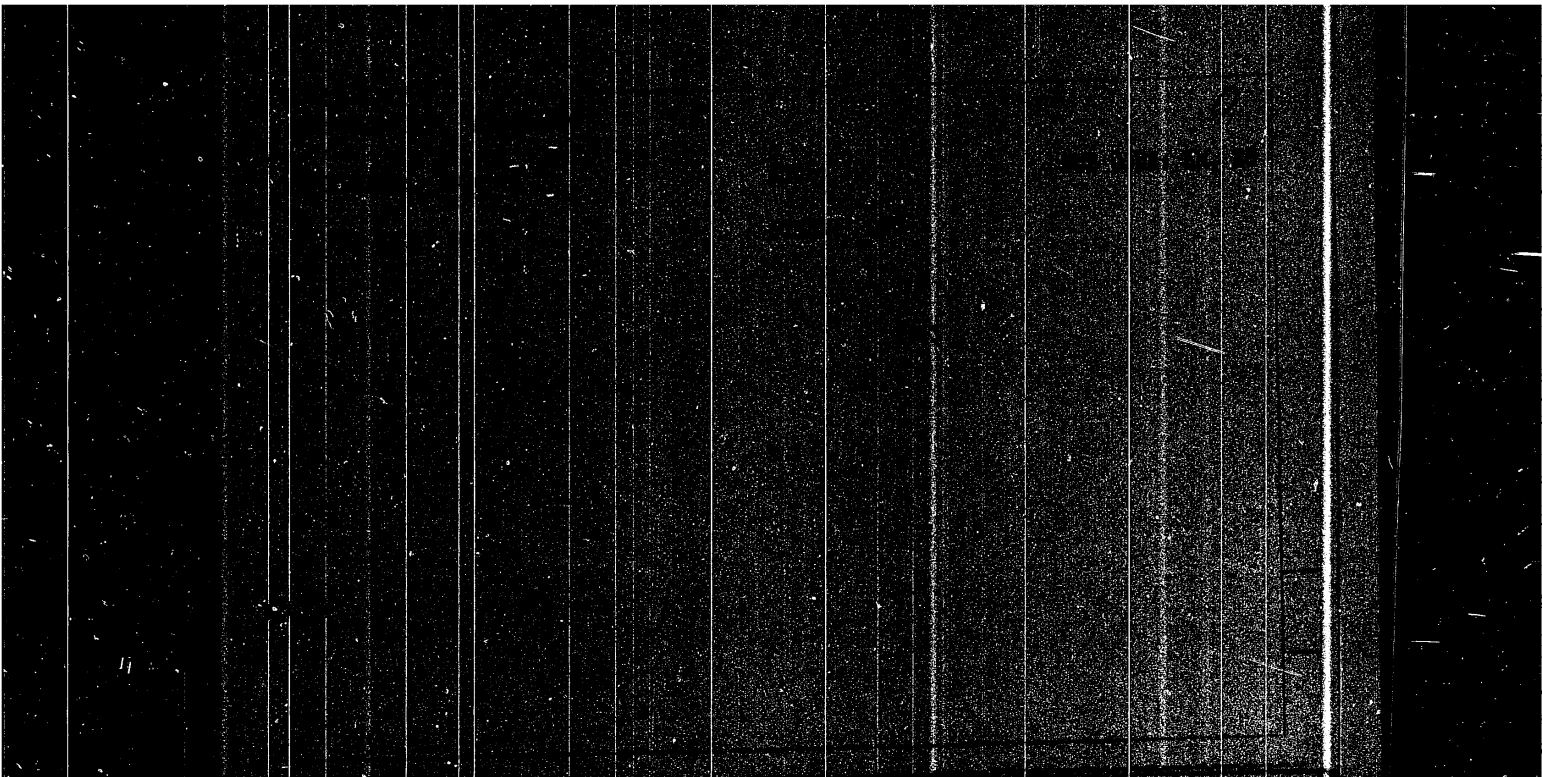
SHARYGIN, A.I.; PEYSAKH, I.I.; ISKAKOV, S.I.; MITROFANOV, V.N.; SHASTINA, Z.Ya.;
SHCHERBAKOV, I.M.; GOMBERG, I.B.

Information. Tekst. prom. 24 no.9:91-97 S '64.

(MIRA 17:11)

1. Direktor Voronezhskoy kordnoy fabрики (for Sharygin).
2. Nachal'-nik proizvodstvenno-tekhnicheskogo otdela upravleniya legkoy promyshlennosti Soveta narodnogo khozyaystva Moldavskoy SSR (for Peysakh).
3. Nachal'nik konstruktorskogo otdela Spetsial'nogo konstruktorskogo byuro Yuzhno-Kazakhstanskogo Soveta narodnogo khozyaystva (for Isakov).
4. Nachal'nik konstruktorskogo sektora Spetsial'nogo konstruktorskogo byuro Yuzhno-Kazakhstanskogo sojeta narodnogo khozyaystva (for Mitrofanov).
5. Nachal'nik Byuro tekhnicheskoy informatsii Melekesskogo l'nokombinata (for Shastina).
6. Glavnyy inzh. Khersonskogo khlopchatobumazhnogo kombinata (for Shcherbakov).
7. Nachal'nik tekhnicheskogo otdela Khersonskogo khlopchatobumazhnogo kombinata (for Gomberg).

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ILLEGIBLE

KUKHARKOVA, L.L., starshiy nauchnyy sotrudnik; FREYDLIN, Ye.M., kand.veter. nauk; PEROVA, P.V.; IL'YASHENKO, M.A.; TRUDOLYUBOVA, G.B., mladshiy nauchnyy sotrudnik; PLOTNIKOV, V.I.; KRASIL'NIKOV, R.I., starshiy nauchnyy sotrudnik; FITINGOV, S.N., starshiy nauchnyy sotrudnik; RUSANOV, R.S., mladshiy nauchnyy sotrudnik; KONUSPAYEVA, U.S., mladshiy nauchnyy sotrudnik; Prinimali uchastiye: YAKOVLEV, L.A., prof.; MITROFANOV, V.N.

Sanitary evaluation of the meat of sheep affected with brucellosis.
Trudy VNIIMP no.14:87-95 '62. (MIRA 16:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy promyshlennosti (for Kukharkova, Freydlin, Perova, Il'yashenko, Trudolyubova, Plotnikov). 2. Kazakhskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta myasnoy promyshlennosti (for Krasil'nikov, Fitingov, Rusanov, Konuspayeva). 3. Saratovskiy zooveterinarnyy institut (for Yakovlev). 4. Saratovskaya oblastnaya veterinarnaya bakteriologicheskaya laboratoriya (for Mitrofanov).

(Meat inspection) (Brucellosis in sheep)

SHUR, I.V., prof.; YAKOVLEV, L.A., prof.; KUKHARKOVA, L.L.; FREYDLIN, Ye.M.,
kand. veterin. nauk; PEROVA, P.7., kand. veterin. nauk; IL'YASHENIC,
M.A., kand. veterin. nauk; KRASIL'NIKOV, R.I., starshiy nauchnyy
sotrudnik; FITINGOF, S.N.; starshiy nauchnyy sotrudnik; TRUDOLYUBOVA,
G.B., ml'adshiy nauchnyy sotrudnik; RUSANOV, R.S., mladshiy nauchnyy
sotrudnik; KONUSPAYEVA, U.S., mladshiy nauchnyy sotrudnik;
MITROPANOV, V.N., mladshiy nauchnyy sotrudnik; KAPERNAUMOVA, N.P.,
mladshiy nauchnyy sotrudnik.

Sanitary evaluation of meat from sheep with brucellosis. Vete-
rinaria 38 no.11:60-65 N '61 (MIRA 13:1)

1. Rukovoditel' laboratorii mikrobiologii i veterinarno-sanitarnoy
ekspertizy Vsesoyuznogo nauchno-issledovatel'skogo instituta myasnoy
promyshlennosti (for Kukharkova).

MITROFANOV, V.N.

Errors due to electrodes in measuring an electric field in a
conducting medium. Geomag. i aer. 5 no.1:141-147 Jan-F '65.
(MIRA 18:4)

1. Institut zemnogo magnetizma, ionosfery i rasprostraneniya
radiovoln AN SSSR.

MITROPANOV, V.M.; POLIKAROV, A.P.; ONEDASH, G.N., red.; KRISHTAL', L.I.,
red.; KHITROV, P.A., tekhn.red.

[Bookkeeping and economic analysis of the operations of a
locomotive depot] Bukhgalterskii uchët i analiz khoziaistvennoi
deiatel'nosti lokomotivnykh depo. Moskva, Gos.transp.zhel-dor.
izd-vo, 1959. 198 p. (MIRA 13:1)
(Railroads--Repair shops)

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AVAILABLE: Library of Congress (HC 340 .A8K3 1957)

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6-30-59

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Audit and Control of the Economic Activity (Cont.)

SOV/1518

the build-up of socialism; principles and methods of control activities for institutions, organizations, establishments, and officials in order to enforce the observance of "socialist legality"; and the cycle of fulfillment of planned tasks, fulfillment of party directives, state decrees, etc. Docent V.M. Mitrofanov wrote the Introduction and Chapters I, II, IV, VII, X, XI, XII, and XIII, while Docent V.A. Kal'kutin wrote Chapters III, V, VI, VIII, and IX. There are no references.

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MITROFANOV, V M.

25(3)

PHASE I BOOK EXPLOITATION

SOV/1518

Kal'kutin, Vasilii Afanas'yevich, and Vasilii Mitrofanovich Mitrofanov

Reviziya i kontrol' khozyaystvennoy deyatel'nosti promyshlennykh
predpriyatiy (Audit and Control of the Economic Activity of
Industrial Establishments) 2nd ed., rev. and enl. Moscow,
Gosfinizdat, 1957. 279 p. 5,000 copies printed.

Resp. Ed.: S.Kutyrev; Ed. of Publishing House: A. Kondrat'yeva;
Tech. Ed.: A. Lebedev.

PURPOSE: This book has been approved by the Ministry of Higher
Education of the USSR as a textbook for finance and economics
institutes and faculties.

COVERAGE: This textbook has been written for a course entitled
"Audit and Control of Economic Activity of Industrial Establish-
ments" and as such presents the basic framework for the following
topics: primary objectives and forms of economic control in the
USSR; questions of organizational control at various stages of

Card 1/9

MITROFANOV, V. M.

Inspection of the financial and economic activity of the construction organizations.
Moskva, Gosfinizdat, 1953. 118 p. (55-29011)

HF5686.E7m5

1. Construction industry - Accounting.
2. Construction industry - Russia. I. Irenin, V. S.

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MITROFANOV, V. M.

Auditing and control of the economic activity of industrial enterprises; textbook. Moscow.
Gosfinizdat, 1952. 255 p. 53-32604

HC335.K327

MITROFANOV, V.M. (Frunze)

Metastasizing pulmonary adenomatosis in sheep. Arkh. pat. 26
no.8:68-74 '64 (MIRA 18:2)

1. Kirgizskiy sel'skokhozyaystvennyy institut (nauchnyy konsul'-
tant prof. B.P. Vsevolodov).

MITROFANOV, V.M. (Frunze)

Histogenesis of pulmonary adenomatosis in sheep. Arkh. pat.
25 no.10:46-51 '63. (MIRA 17:7)

1. Iz Kirgizskogo sel'skokhozyaystvennogo instituta imeni
K.I. Skryabina (nauchnyy konsul'tant - prof. B.P. Vsevolodov).

ZIL'BER, L.A.; SHAPIRO, V.S.; GARDASH'YAN, A.M.; MITROFANOV, V.M.

Mouse cysts produced by the administration of extracts of
adenomatous pulmonary tissue from sheep. Vop.virus. 7 no.3:
288-291 My-Je'62. (MIRA 16:8)

1. Institut epidemiologii i mikrobiologii imeni N.F.Gamalei,
Moskva i Kirgizskiy sel'skokhozyaystvennyy institut imeni
K.I.Skryabina, Frunze.

(CYSTS) (TUMORS--TRANSPLANTATION)

MITROFANOV, V.M. (Frunse)

Tumors in sheep. Arkh. pat. 10:69-72 '62.

(MIRA 17:1)

1. Iz kafedry patologicheskoy anatomii i veterinarno-sanitarnoy ekspertizy Kirgizskogo sel'skokhozyaystvennogo instituta.

MITROFANOV, V.M., dotsent; KRAPIVNER, L.M., starshiy veterinarnyy vrach

"Tuberculosis of domestic fowl" by P.I.Kokurichev, V.I.Rotov.
Reviewed by V.M.Mitrofanov, L.M.Krapivner. Veterinariia 38
no.1:85-88 Ja '61. (MIRA 15:4)

1. Kirgizskiy sel'skokhozyaystvennyy inatitut (for Mitrofanov).
2. Rzhskiy portovyy kholodil'nik (for Krapivner).
(Tuberculosis in poultry) (Kokurichev, P.I.)
(Rotov, V.I.)

MITROFANOV, V. M. (Frunze)

Rare case of leukemia in an ox. Arkh. pat. no. 8:73-76 '61.
(MIRA 15:4)

1. Iz Kirgizskogo sel'skokhozyaystvennogo instituta imeni K. I.
Skryabina (dir. - prof. S. I. Ivanov)

(LEUKEMIA)

MITROFANOV, V. M. and KRATIVNER, L. M.

" About the book 'Veterinary and Sanitation examination and technology of cattle-breeding products!."

Veterinariya, Vol. 37, No. 1, 1960, p. 88

Mitrofanov - Docent, Frunze Agric. Inst

MITROFANOV, V.M., dotsent; KRAPIVNER, L.M., starshiy veterinarnyy vrach

On the book "Veterinary sanitary examination and the technology of meat products" by B.N.Fedotov. Reviewed by V.M. Mitrofanov, L.M.Krapivner. Veterinariia 37 no.1:88-91 Ja '60. (MIRA 16:6)

1. Frunzenskiy mel'skokhozyaystvennyy institut (for Mitrofanov).
2. Rishskiy portovyy kholodil'nik (for Krapivner).
(Meat inspection)

~~МУТРОНОВ, К.М.~~ kandidat veterinarnykh nauk, doklad.

Some data on the spreading of cysticercosis among cattle in Kirghizia.
Veterinariia 34 no.5:72-74 My '57. (MIRA 10:6)

1. Kirgizskiy sel'skokhozyaystvennyy institut imeni K.I. Skryabina.
(Kirghizia--Tapeworms) (Cattle--Diseases and pests)

USSR / Diseases of Farm Animals. Diseases Caused R-1
by Bacteria and Fungi

Abs Jour: Ref Zhur-Biol., No 2, 1958, 7309

Author : Kh.Sh. Alimeyev, V. M. Mitrofanov, V. M. Stesh-
enko, T. M. Mukanbayev.

Inst : Not Given

Title : Pathological Histology of Infectious Pleuropneumonia
of Sheep.

Orig Pub: (M-vo s-kh. SSSR. Latv. s-kh. akad.) Riga, 1957,
22 str. ili.

Abstract: No Abstract.

Card 1/1

MITROPANOV, V.M., kandidat veterinarnykh nauk.

Therapy for secondary pneumonia in calves. Veterinariia 32
no.2:42-43 P '55. (MIRA 8:3)

1. Kirgizskiy sel'skokhozyaystvennyy institut.
(CALVES--DISEASES) (PNEUMONIA)

MITROFANOV, V. M.

MITROFANOV, V. M. "Morphological Changes in Certain Branches of the Vegetative Nervous System in the Lungs of a Goat with Infectious Pleuropneumonia." Cand Vet Sci, Kirgiz Agricultural Inst imeni K. I. Skryabin, 26 Jan 54. (Sovetskaya Kirgiziya, 7 Jan 54)

SO: SUM 168, 22 July 1954

85329

S/031/60/000/009/001/001
A161/A029

On the Spectral Composition of the Radiation and the Temperature of the Carbon
Arc in Argon and Helium

have high excitation potentials (SeI, AuI, ZnI, BeII and other). There are 7
figures, 1 table and 7 references: 4 Soviet, 1 English, 2 German.

X

Card 4/4

85327

S/031/60/000/009/001/001
A161/A029

On the Spectral Composition of the Radiation and the Temperature of the Carbon
Arc in Argon and Helium

Measurements on the lines of ionized carbon, CII 2,509.11 (excitation potential 18.67 ev) and CII 2,836.71 (excitation potential 16.34 ev) made in a previous investigation (Ref. 7) proved that in direct vicinity of the cathode the temperature is near 20,000°K but is lower in other discharge portions. The measurements in argon gave analogous results. In general, it was revealed that lines of all elements including helium are excited in a carbon arc. Lines with high excitation energies (ArII, CII, CIII and more) appear in the spectrum of the spot at the cathode only. The maximum intensity of the copper lines 5,105 541 and 5,153.235, by which the temperature is usually being measured, is reached in argon and helium environment not on the arc axis but at the periphery, i.e., in colder sections with about 6,700-6,800°K. Therefore, the temperatures measured in this way in argon and helium are neither the mean values for the entire discharge nor the maximum values, but show the temperature in the zone of the highest radiation of these lines. The existence of a high temperature in the arc discharge in argon and helium can be utilized in practical analysis techniques for higher accuracy of determination of the elements, the analytical lines of which

Card 3/4

85329

S/031/60/000/009/001/001
A161/A029

On the Spectral Composition of the Radiation and the Temperature of the Carbon Arc in Argon and Helium

axial symmetry of it can be established. Only a small part of the spectrograms made could be processed using the Hörmann method (Ref. 5). Curves were plotted and the dependence of the intensity $i(r)$ on the radius r across the arc cross section area was calculated by graphical solution of the Abel equation

$$i(r) = -\frac{1}{\pi} \int_r^{r_0} \frac{i_x(x) dx}{\sqrt{x^2 - r^2}}$$

where $i(r)$ is the intensity of radiation of a volume unit at the distance r from the discharge axis. The discharge temperature was determined by the relative intensities $i(r)$ of the copper lines, using the formula (Ref. 6)

$$T(r) = \frac{11987}{\lg \frac{I(r)_{5105}}{I(r)_{5153}} + 1.82}$$

Card 2/4

85329

S/031/60/000/000/001/001
A161/A029

26.2310

AUTHOR:

Marzivanov, V. L.

TITLE:

On the Spectral Composition of the Radiation and the Temperature
of the Carbon Arc in Argon and Helium

PERIODICAL:

Vestnik Akademii nauk Kazakhskoy SSR, 1960, No. 9 (186), pp. 85-91

TEXT:

The behavior of a carbon arc in argon and helium environment was studied and its spectral radiation composition and the temperature of the core were measured. The discharge was produced in a quartz tube. Gas was blown through the tube. The arc gap was held at 5 mm; the arc was fed with 10 amp d-c; the radiation from different discharge parts onto the spectograph slit was projected by a mirror system. A photo of the installation is given. The carbon electrodes had a crater in the bottom electrode which was filled with carbon powder containing 1 % copper. Spectra were recorded in the wavelength range of λ 2,250-8,000 Å. The observed luminescent discharge cloud was different in argon and in air; the intensity of the spectral lines was distributed on the arc length and across the arc. It was stated that the central hottest portion of discharge is in fast transversal motion and therefore no

Card 1/4

IGNAT'YEV, B. G.; POLTORATSKIY, N. I.; MITROFANOV, V. I.; KOTEL'NIKOV, R. B.;
BASHLYKOV, S. N.

"Vacuum reduction, hot pressing and some properties of uranium bicarbides."

paper submitted but not presented at Intl Powder Metallurgy Conf, New York
City, 14-17 June 1965.

MITROFANOV, V.I.; ADAYKIN, P.V.

Deeds follow the words. Veterinariia 41 no.5:15-17 My '64.
(MIRA 18:2)

1. Predsedatel' pravleniya kolkhoza "Pobeda" Cherdaklinskogo
proizvodstvennogo upravleniya (for Mitrofanov). 2. Nachal'nik
oblastnogo veterinarnogo upravleniya Ul'yanovskoy oblasti (for
Adaykin).

ALEKSEYEVA, A.I.; GRINMAN, I.G.; KALININ, S.K.; KUSHNIKOV, Yu.A.;
MARZUVANOV, V.I.; FRISH, S.E., prof.;red.; SUVOROVA, R.I.,
red.; BOROKINA, Z.P., tekhn.red.

[Atlas of the spectrum of mercury] Atlas spektra rtuti.
Alma-Ata, 1959. 1 v. (MIRA 14:1)

1. Akademiya nauk Kazakhskoy SSR. Fiziko-tehnicheskii institut.
2. Chlen-korrespondent AN SSSR (for Frish).
(Mercury--Spectra)

AID P - 4756

Subject : USSR/Aeronautics - maintenance

Card 1/1 Pub. 135 - 14/31

Authors : Zhdanov, V. M., Eng.-Lt.Col. and Mitrofanov, V. I.,
Eng.-Lt. Col.

Title : What can be learned from the use of gyro-pilots

Periodical : Vest. vozd. flota, 8, 60-62, Ag 1956

Abstract : The authors describe how by proper checking, accurate
adjustment and skillful use in flight of gyro-pilots
one can be insured of their reliable operation. One
diagram. The article is of informative value.

Institution : None

Submitted : No date

MIKHAYLOV, S.S., prof., red.; SHAYKOV, A.D., kand. med. nauk, zam. red.; OLIFSON, L.Ye., dots., red.; VILESOV, S.P., prof., red.; MITROFANOV, V.G., doktor med. nauk, red.; PERVUSHIN, V.Yu., dots., red.; BOCHKAREVA, A.A., dots., red.; PIS'MENOV, I.A., ass., red.

[Nineteenth Scientific Session of the Orenburg State Medical Institute] XIX Nauchnaya sessiya Orenburgskogo Gosudarstvennogo meditsinskogo instituta. Orenburg, 1962. 144 p.

(MIRA 16:11)

1. Orenburg. Gosudarstvennyy meditsinskiy institut. 2. Zaveduyushchiy Gosptal'noy khirurgicheskoy klinikoy Orenburgskogo meditsinskogo instituta (for Vilesov). 3. Zaveduyushchiy kafedroy operativnoy khirurgii Orenburgskogo meditsinskogo instituta (for Mikhaylov). 4. Zaveduyushchiy fakul'tetskoy khirurgicheskoy klinikoy Orenburgskogo meditsinskogo instituta (for Mitrofanov). 5. Zaveduyushchaya Kafedroy glaznykh bolezney Orenburgskogo meditsinskogo instituta (for Bochkareva). 6. Zaveduyushchiy kafedroy obshchey khimii Orenburgskogo meditsinskogo instituta (for Olifson).

(ANATOMY, SURGICAL AND TOPOGRAPHICAL)

(MEDICINE, INTERNAL)

MITROFANOV, V.G., dotsent

Biliary peritonitis without bile duct perforation. Khirurgiia 38
no.10:120-121 O '62. (MIRA 15:12)

1. Iz kafedry fakul'tetskoy khirurgii No.2 (nach. - zasluzhennyi
deyatel nauki prof. M.S. Lisitsyn) Voenno-meditsinskoy ordena
Lenina akademii imeni S.M. Kirova.
(PERITONITIS) (BILIARY TRACT--DISEASES)

ZOLOTAREV, Ye.Kh.; MITROFANOV, V.G.; YUDIN, L.G.; STYAZHKINA, N.B.

Investigation of repellents. Report No.12: Repellent action of
N-acylindolines on the fleas *Xenopsylla cheopis* Roths.
Vest. Mosk. un. Ser. 6: Biol., pochv. 16 no.4:58-61 J1-Ag '61.
(MIRA 14:7)

1. Kompleksnaya laboratoriya po izucheniyu sredstv i sposobov
bor'by s vrednymi zhivotnymi i boleznyami rasteniy Moskovskogo
gosudarstvennogo universiteta.

(INSECT BAITS AND REPELLENTS)

(FLEAS)

(INDOLINE)

MITROPANOV, V.G., dotsent (Leningrad, pl.Mira, d.9/26, kv.16)

New data on changes in oxidation-reduction processes in tissue respiration and of some B-complex vitamins in traumatic shock alone and in conjunction with radiation sickness. Vest.khir. 83 no.7:112-126 J1 '59. (MIRA 12:11)

1. Iz kafedry obshchey khirurgii No.2 (nach. - prof.M.S.Lisitsyn)
i TSentral'noy nauchno-issledovatel'skoy laboratorii pitaniya
(nach. - prof.V.M.Vasyutochkin) Voenno-meditsinskoy ordena
Lenina akademii im. S.M.Kirova.
(SHOCK) (CELL METABOLISM) (RADIATION SICKNESS) (VITAMIN METABOLISM)

MITROPANOV, V.G.

New drugs and medicine. Kaz.med.zhur. 40 no.5:127 S-0 '59.
(MIRA 13:7)

(DRUGS)

(SHOCK)

MITROPANOV, V.G., dotsent, podpolkovnik meditsinskoy sluzhby

Problem of antishock fluids. Voen.-med.zhur. no.6:46-51
Je '59. (MIRA 12:9)
(SHOCK, prov. & control
antishock fluids (Rus))

MITROFANOV, V.G.

The fortieth anniversary of M.S. Lisitsyn's surgical work.
Vest. khir. 77 no.2:148-149 F '56 (MLRA 9:6)

(LISITSYN, MIKHAIL SEMENOVICH, 1891-)

MITROFANOV, U.G.

MITROFANOV, U.G., kandidat meditsinskikh nauk

Novocaine block of the carotid sinus in a surgical clinic. Khirurgiia
no.11:70-73 N '54. (MLRA 8:3)

1. Iz kafedry obshchey khirurgii Voenno-morskoy meditsinskoy akademii
(nach. kafedry sasluzhenyy deyatel' nauki prof. M.S.Lisitsyn).

(ANESTHESIA, REGIONAL,

carotid sinus procaine block)

(PROCAINE, anesthesia and analgesia,

carotid sinus block)

(CAROTID SINUS,

procaine block)

MITROFANOV, V. G. Cand of Med Sci

USSR/Medicine - Intra-Ossal Puncture Nov/Dec 53

"The History of the Method of Intra-Ossal Introduction of Drugs," V. G. Mitrofanov, Cand of Med Sci, Chair of Gen Surg, Naval Med Acad

Vest Khirurg im I. I. Grekov, Vol 73, No 6, pp 60-62

Attributes origination of this method to USSR workers. Names M. S. Lisitsyn of the Military-Med Acad im S. M. Kirov as having introduced the sternal puncture method in 1927. States that administration of penicillin, analgesics, blood substitutes, etc by this method is gaining popularity in the USSR.

274T33

TRUSOV, L.P., kand.tekhn.nauk; FEDORTSOV-LUTIKOV, G.P., kand.tekhn.
nauk; MITROPANOV, V.G., inzh.

Installation for testing creep and long-time strength of
heat resistant alloys. [Trudy] TSNIITMASH 100:107-115
'59. (MIRA 13:7)

(Heat-resistant alloys---Testing)

137-1957-12-15415

The IP-4M Testing Machine for Creep and Endurance Strength

type are employed in the thermocouple circuits. Automatic temperature compensation for the free terminals of thermocouples is accomplished by means of a special unit of the KT-54 type, group KhA. The mechanical system of the machine remained essentially unaltered. All component units of the IP-4M machine have exhibited sufficient strength and reliability required for the experiments during long periods.

Z.F.

1. Metals-Tensile properties-Testing equipment
2. Metals-Creep-Testing equipment
3. Metals-Thermodynamic properties-Testing equipment

Mitrofanov, V. G.

137-1957-12 25415

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 351 (USSR)

AUTHORS: Trusov, L. P., Fedortsov-Lutikov, G. P., Mitrofanov, V. G.

TITLE: The II-4M Machine for Determining Long-Time Tensile Strength under Load
(Mashina dlya ispytaniya na polzuchest'-dlitel'nuyu prochnost'
IP-4M)

PERIODICAL: V sb.: Prochnost' metallov. Moscow, AN SSSR, 1956, pp 91-99

ABSTRACT: A description of design changes performed on the IP-2 testing machine in order to explore the simplest and the most reliable methods for testing metals at elevated temperatures. Specifications for the new testing machine IP-4M (improved IP-2 model), developed at the TsNIITMash, are shown. Temperature regulation in the furnace of the IP-4M is accomplished automatically by means of an EPD-17 potentiometer; in addition, the furnace is equipped with a dilatometric temperature regulator, which controls the electronic potentiometer and also regulates the temperature in the event of failure of the potentiometer or the thermocouple. A control panel ensures temperature regulation at 108 points. Temperature is measured by means of a PP-11 potentiometer of class 0.25, with a range of 0 to 71 mv. Jack switches of PD-6

Card 1/2

MITROFANOV, V.F., kand.ekonom.nauk

Brief review of research carried out by the "All-Union Scientific Research Institute for the Design and Planning of Establishments for the Merchant Marine." Biul.tekh.-ekon. inform. Tekh.upr.Min. (MIRA 16:9)
mor.flota 7 no.11:59-66 '62.

1. Uchenyy sekretar' Gosudarstvennogo proyektno-konstruktorskogo i nauchno-issledovatel'skogo instituta morskogo transporta.
(Merchant marine)

VISHNEPOL'SKIY, S.A., kand. ekon. nauk; BAYEV, S.M., inzh. putey soob-
shcheniya; BONDARENKO, V.S.; RODIN, Ye.D.; CHUVLEV, V.P.;
TURETSKIY, L.S.; SMIRNOV, G.S.; SHAPIROVSKIY, D.B.; OBERMEYSTER,
A.M.; SINITSIN, M.T.; KOGAN, N.D.; PETRUCHIK, V.A.; GRUNIN, A.G.;
KOLESNIKOV, V.G.; MARTIROSOV, A.Ye.; KROTKIY, I.B. [deceased];
ZENEVICH, G.B.; MEZENTSEV, G.A.; KOLOMOYTSEV, V.P., kand. tekhn. nauk;
ZAMAKHOVSKAYA, A.G., kand. tekhn. nauk; MAKAL'SKIY, I.I., kand.
ekon. nauk; MITROFANOV, V.F., kand. ekon. nauk; CHILIKIN, Ya.A.;
BAKAYEV, V.G., doktor tekhn. nauk, red. Prinimali uchastiye:
DZHAYAD, Yu.Kh., red.; GUBERMAN, R.L., kand. ekon. nauk, red.;
RYABCHIKOV, P.A., red.; YAVLENSKIY, S.D., red.; BAYRASHEVSKIY,
A.M., kand. tekhn. nauk, red.; POLYUSHKIN, V.A., red.; BALANDIN,
G.I., red.; ZOTOV, D.K., red.; RYZHOV, V.Ye., red.; BOL'SHAKOV, A.N.,
red.; VUL'FSON, M.S., kand. ekon. nauk, red.; IMITRIYEV, V.I., kand.
ekon. nauk, red.; ALEKSANDROV, L.A., red.; LAVRENOVA, N.B., tekhn.
red.

[Transportation in the U.S.S.R.; marine transportation] Transport
SSSR; morskoi transport. Moskva, Izd-vo "Morskoi transport,"
1961. 759 p. (MIRA 15:2)

(Merchant marine)

MITROPANOV, V.P.

Ways of improving rates for the inland water transportation of
cargoes. Rech. transp. 18 no.4:12-14 Ap '59. (MIRA 13:1)
(Inland water transportation--Rates)

MITROFANOV, V.F., inzh.

Standardized principles for computing freight rates. Zhel. dor.
transp. 40 no.3:29-35 Mr '58. (MIRA 11:4)
(Freight and freightage)

Mitrofanov, V.F.

MITROFANOV, V.F.

~~Improvement of transportation rates. Rech.transp. 16 no.12:8-11~~
D '57. (MIRA 11:1)

(Inland water transportation--Rates)

Conference on Problems of Automobile Engine Life

117-3-26/28

apparently explains the high rate of wear in the upper part of the cylinder lining and the piston rings.

Candidate of Technical Sciences D.I. Vysotskiy (NAMI) made a report on investigation methods with the use of radioactive isotopes. Candidate of Technical Sciences A.I. Nishevich (NATI) announced that NATI has used radioisotopes for 5 years in testing the wear resistance of materials under laboratory conditions, as well as for evaluating the wear rate of the piston rings of "Д-35" and "Д-54" tractors in test running.

AVAILABLE: Library of Congress

Card 3/3

Conference on Problems of Automobile Engine Life

117-3-26/28

In the report "The Problem of Choosing Antifriction Alloys for Automobile Bearings", Candidate of Technical Sciences N.M. Rudnitskiy (of NAMI) spoke of a new, USSR made, anti-friction alloy "COC6-6" consisting of 88% lead, 6% antimony, and 6% tin, which is used by 4 plants making automobile bearings. At the Moscow Automobile Plant imeni Likhachev, this alloy brought about an annual saving of 21 million rubles. It can be used for the new heavy-duty 3-layer bearings.

Engineer B.M. Grindorf (Middle-Asian Polytechnic Institute) delivered the report "Increasing the Wear Resistance of Engine Cylinders by the Use of Metal-Ceramic Linings". Engineer D.I. Bran (NIITAvtoprom) reported on increasing the life of valves by aluminizing the facets.

Engineer V.S. Zavel'skiy (NAMI) pointed out in his report "Corrosion Sensitivity of Cast Iron to Sulphur Oxides" that the corrosion of engines has become acute on account of the highly sulphurous fuels used at the present time. He described the tests carried out at NAMI, in which the cylinder-and-piston units were run in sulphurous gas, and the wear was measured by the method of radioactive isotopes. It was concluded that the sulphurous anhydride forming at the burning process can produce gas corrosion at high temperature, which

Card 2/3

~~117~~ MITROFANOV, V. A.

117-3-26/28

AUTHOR: Aristov, I. A., Engineer,

TITLE: Conference on Problems of Automobile Engine Life (Konferentsiya po povysheniyu dolgovechnosti avtomobil'nykh dvigateley)

PERIODICAL: Mashinostroitel', 1958, # 3, p 47 (USSR)

ABSTRACT: The conference was organized by the NTO Mashprom and convened in 1957 in Moscow. A number of 230 delegates from automobile plants, research institutes, and higher technical schools participated.

The following persons delivered reports: Deputy Chief Designer of the Yaroslav Automobile Plant F. I. Novikov, leading designer of the Khar'kov Plant "Serp i Molot", M. K. Kubata, leading designer of the Moscow Plant of Small Engine Displacement Automobiles (Moskovskiy zavod malolitrzhnykh avtomobiley), V. A. Mitrofanov, Candidate of Technical Sciences A. D. Kuritsina of the Machine Institute of the USSR Academy of Sciences (Institut mashinovedeniya Akademii nauk SSSR), scientific worker of NAMI A. G. Al'perovich ("Life of Modern Engines of Soviet and Foreign Make"), Candidate of Technical Sciences M. S. Korenev (of NAMI) ("On Application of Highly Effective Air Filters for Increasing the Life of Automobile Engines").

Card 1/3

MITROFANOV, V.A., (Gur'yev)

Operating diesel locomotives over longer runs. Zhel. dor. transp.
38 no.8:15-18 Ag '56. (MLRA 9:10)

1. Nachal'nik Gur'yevskogo otdeleniya Orenburgskoy dorogi.
(Diesel locomotives)

YERMAKOV, N.A.; KIRIL'TSEV, B.I.; MITROFANOV, V.A.

Effectiveness of composts in grain and row crop cultivation.
Zemledelie 24 no.5:25-27 My '62. (MIRA 15:7)

1. Oporno-pokazatel'nyy plemennoy sovkhoz "Pron'", Kimovskogo rayona, Tul'skoy oblasti. 2. Direktor oporno-pokazatel'nogo plemennogo sovkhoza "Pron'", Kimovskogo rayona, Tul'skoy oblasti (for Yermakov). 3. Glavnyy agronom Oporno-pokazatel'nogo plemennogo sovkhoza "Pron'", Kimovskogo rayona, Tul'skoy oblasti (for Kiril'tsev).

(Field crops--Fertilizers and manures)
(Compost)

MITROFANOV, V.; ZUYEV, I.; MASHKAUTSAN, S.; YARTSEV, G.; KAMKIN, L.; ZBARSKIY, S.; GLUSHCHENKO, M.; ROZKIN, G.

Shortcomings of the stage system of teaching. Prof.-tekh. obr. 21
no.7:29-31 JI '64. (MIRA 17:11)

1. Nachal'nik otдела podgotovki kadrov Yuzhno-Ural'skogo soveta narodnogo khozyaystva (for Mitrofanov). 2. Direktor tsentral'nogo uchebnogo kombinata Yuzhno-Ural'skogo soveta narodnogo khozyaystva (for Zuyev). 3. Nachal'nik otдела tekhnicheskogo obucheniya Chelyabinskogo traktornogo zavoda (for Yartsev). 4. Nachal'nik otдела tekhnicheskogo obucheniya Chelyabinskogo metallurgicheskogo zavoda (for Kamkin). 5. Direktor TSentral'nogo uchebnogo kombinata "Glavyuzhuralstroy" (for Zbarskiy). 6. Nachal'nik otдела tekhnicheskogo obucheniya Magnitogorskogo metallurgicheskogo kombinata (for Glushchenko).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001134700016-6

MITROFANOV, S.P.

Make use of all technology unification forms. Pod org 17 no.7:
300 J1 '63.

ACC NR: AM 6012224

Ch. II. Organization of casting production based on the group method -- 82
Ch. III. Group production of materials by compression methods -- 131
Ch. IV. Group processing of plastic parts -- 212
Ch. V. Group processing of parts on milling machines -- 233
Ch. VI. Group processing of parts on drilling machines -- 279
Ch. VII. Possibilities of using aggregate machinery for the group method of
processing parts -- 346
Bibliography -- 392

SUB CODE: 13 / SUBM DATE: 20Sep65/ ORIG REF: 030/

Card 2/2

ACC NR: AM 6012224

Monograph

UR/

Mitrofanov, S. P. (Doctor of Technical Sciences; Professor)

Scientific principles of engineering group production (Nauchnyye osnovy tekhnologicheskoy podgotovki gruppovogo proizvodstva) Moscow, Izd-vo "Mashinostroyeniye", 1965, 394 p. illus., biblio. 6,000 copies printed.

TOPIC TAGS: production engineering, metal working machinery, metallurgic process, milling machine, drilling machine, metal casting, computer application

PURPOSE AND COVERAGE: This book gives the present condition and development of the organization of engineering group production in instrument and machine manufacture. The classifiers and methods of classification using computers are given. Also included are problems in using the group method in processing materials by sand casting, die casting, stamping from liquid metal, forging, and others. Problems of mechanical working with milling, drilling and aggregate units are given, as well as improved structures of fittings and repairs used in the Soviet Union and abroad. This book is recommended for technical engineers and scientists and it can also be useful for students in institutes of technological specialties.

TABLE OF CONTENTS (abridged):

Preface -- 3

Ch. I. Characteristics of several systems of classification of parts -- 5

Card 1/2

UDC: 621.658.512 (012)

MITROFANOV, S.P., doktor tekhn. nauk, prof.; GUTNER, N.G., inzh.
red.

[Scientific fundamentals of technological preparation
of group production] Nauchnye osnovy tekhnologicheskoi
podgotovki gruppevogo proizvodstva. Moskva, Mashino-
stroenie, 1965. 394 p. (MIRA 19:1)

of material working; electric instrument production methods;
usage of automatic machines for galvanic and chemical coating, etc.;
coating of threads without altering designed thread sizes; assembly of
instruments; printed circuit techniques; modular construction in
instrument building; demands on electronics apparatus made of
micromodules; production of linear and functional code disks for
photoelectric converters of the "angle-code" type; and computerised
design of instrument construction facilities. [JPRS]

SUB CODE: 13, 09 / SUBM DATE: none

Card 2/2 B.L.G.

TITLE: All-Union inter-higher educational institution conference on problems of progressive instrument building technology

SOURCE: Pribozostroyeniye, no. 9, 1965, 30-31

TOPIC TAGS: precision instrument industry, powder metallurgy, metalworking, metal stamping, printed circuit

ABSTRACT: The conference was held in Leningrad 21-23 April 1965, and heard reports on the following subjects: The main directions of development and problems of progressive instrument building technology and problems for educational institution workers in the expansion of production, improvement of quality and reliability, durability, accuracy and technological level of instrument design, etc.; the importance of increased metal strength, possibilities in this area being offered by filament-crystal constructions; powder metallurgy as a basis for instrument building; progressive methods of metalworking; sheet cold stamping, its current state and prospects; classification of cold-stamped parts; cold non-stamp metalworking involving pressure; aggregate machine tool construction in the USSR and abroad; fine diamond tool working; electrophysical and electrochemical new methods

Card 1/2

L 27919-66

ACC NR: AP017712

of material working; electric instrument production methods; usage of automatic machines for galvanic and chemical coating, etc.; machine of threads without altering designed thread sizes; assembly of

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001134700016-6

MITROFANOV, S.P., doktor tekhn. nauk

Basic trends in the development of the technology in the manufacture
of machinery. Mashinostroitel' no.6:1-2 Je '65. (MIRA 18:7)

MITROFANOV, Sergey Petrovich, VYSOKODVORSKIY, Il'ya Abramovich;
Vladimirskiy, I. I.; red.

[Using machine-tool units in the multiple machining of
parts] Ispol'zovanie agregatnykh stankov pri gruppovom
metode obrabotki detalei. Leningrad, 1965. 38 p.
(MIRA 18:7)

MITROFANOV, S.P., doktor tekhn.nauk, laureat Leninskoy premii

Multiple machining techniques form the basis for the organization of small-lot production. Mashinostroitel' no.1:6-8 Ja '64. (MIRA 17:2)

BARUN, Vladimir Abramovich; BUDINSKIY, Aron Abramovich; MITROFANOV, S.P.,
doktor tekhn. nauk, retsenzent; SHAVLYUGA, N.I., kand. tekhn.
nauk, red.; KUREPINA, G.N., red.izd-va; SPERANSKAYA, G.V., tekhn.
red.
[Automatic control systems for machine tools]Sistemy avtomatiza-
tsii stankov. Moskva, Mashgiz, 1963. 430 p. (MIRA 16:4)
(Machine tools) (Automatic control)

ACCESSION NR AM4027876

BOOK EXPLOITATION

S/

Mitrofanov, S. P. (Doctor of Technical Sciences, Professor)

Scientific fundamentals of the organization of multiple machining in industrial production (Nauchnyye osnovy organizatsii gruppovogo proizvodstva), Moscow, Mashgiz, 1963, 304 p. illus., biblio. 3,200 copies printed.

TOPIC TAGS: machining, multiple machining, machine building, instrument building, machine tool design, production planning, automation, assembly line production, industrial engineering, standard

PURPOSE AND COVERAGE: The book considers the state of the art and the direction of development of the theory and practice and machine building and instrument building technology based on the unification of technological processes. The basic problems of the development and introduction of multiple machining as the basis of mechanized assembly line production are illuminated. Material is given on the design of machine tool accessories, the modernization and specialization of equipment, the design of assembly-line and automated lines, standard establishment, planning and organization of production. The book is intended for engineers and technicians and researchers. It also will be useful for students and teachers of higher educational institutions.

Card 1/2

SHNEYDER, Yuriy Gdal'yevich; MITROFANOV, S.P., doktor tekhn. nauk,
retsensent; SKRAGAN, V.A., kand. tekhn. nauk, red.;
VARKOVETSKAYA, A.I., red.izd-va; SPERANSKAYA, O.V.,
tekhn. red.; PETERSON, M.M., tekhn. red.

[Metal finishing by pressure] Chistovaia obrabotka metallov
davleniem. Moskva, Mashgiz, 1963. 268 p. (MIRA 16:8)
(Metals--Finishing)

GLAZOV, G.A.; MITROFANOV, S.P., doktor tekhn. nauk, prof.,
rezensent; PETROV, V.A., kand. tekhn. nauk, dots., red.;
USIKOV, N.N., inzh., red. izd-va; SHCHETININA, L.V.,
tekhn. red.

[Mechanized lines in small lot production] Mekhanizirovan-
nye potochnye linii v melkoseriinom proizvodstve. Moskva,
Mashgiz, 1963. 76 p. (MIRA 17:3)

MITROFANOV, Sergey Petrovich; ANSEROV, M.A., red.; TELYASHOV, R.Kh.,
red.izd-va;

[Over-all mechanization and automation in group production]
Kompleksnaia mekhanizatsiia i avtomatizatsiia v usloviakh
gruppovogo proizvodstva. Leningrad, 1963. 27 p. (Leningrad-
skii dom nauchno-tehnicheskoi propagandy. Otnen peredovym
opytom. Seriia: Mekhanicheskaiia obrabotka metallov, no.9)
(MIRA 16:5)

(Metalwork--Equipment and supplies) (Automatiom)

~~MITROFANOV, S.P.~~ [Mitrofanov, S.P.]

Mechanization, automation, and group processing. Technika 6 no.3:
2 Mr '62.

~~MITROPOLSKOV, Sergey Petrovich~~; GUTNER, Naum Grigor'yevich; KUCHER, I.M.,
kand. tekhn. nauk, retsenzent; ANSEROV, M.A., kand. tekhn. nauk,
red.; CHIFAS, M.A., red. izd-va; KUREPINA, G.N., red. izd-va;
SHCHETININA, L.V., tekhn. red.

[[Turnet lathes and their efficient use]Revol'vernye stanki i ikh
ratsional'noe ispol'zovanie. Moskva, Mashgiz, 1962. 349 p.
(MIRA 16:3)

(Lathes) (Turning)

MITROFANOV, Sergey Petrovich, Laureat Leninskoy premii, doktor tekhn.
nauk; ANSEROV, M.A., red.; GRIGOR'YEVA, I.S., red. izd-va;
BELOGUROVA, I.A., tekhn. red.

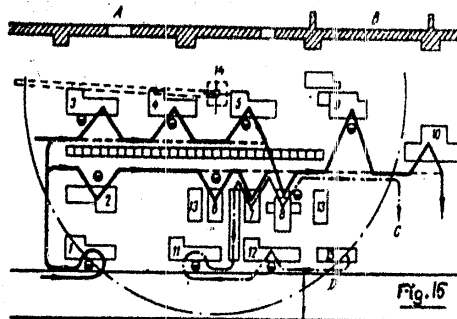
[Scientific fundamentals for technological planning of produc-
tion] Nauchnye osnovy tekhnologicheskoi podgotovki proizvod-
stva; obzor. Leningrad, 1962. 77 p. (MIRA 15:8)
(Industrial management)

20001

Problems of mechanization and automation ...

G/018/61/010/005/002/003
B120/B203

Legend to Fig. 15:
(C) technical control,
→ direction of shaft
machining,
--- → direction of
cover machining.



Card 5/5

20031

Problems of mechanization and automation ...

G/018/61/010/005/002/003
B120/B203

Legend to Fig. 3: (A) first operation, (B) second operation.

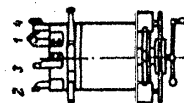
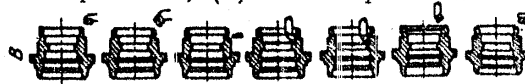


Fig. 3



Card 4/5

Problems of mechanization and automation ...

20031

G/018/61/010/005/002/003
B120/B203

reported that formerly one plant produced 200 different shafts, axles, and bolts and more than 180 different covers on 35 machines in several engine rooms; now, all these workpieces are produced in one assembly line consisting of 14 machines (Fig. 15). The automation of assembly lines gives automatic lines. A train put into operation in Leningrad in 1956 produces 63 different types of relay with the aid of 16 cutting tools. Formerly, 79 one-step cutting tools were required for this purpose. This increased the output by the 13-fold, reduced the costs by the 1.3-fold, and saved about 0.5 million rubles in 1958. On another automatic line, 420 different screws can be produced in two operations. In 1957-58, the Testing Laboratory of Machine Building, together with the Stankokon-struktsiya Works, established two automatic group lines for the machining of shafts and pinions. Thus, the method of group production created the possibility of fully automatic machining of workpieces in small series. There are 21 figures.

Card 3/5

20031

Problems of mechanization and automation ... G/018/61/010/005/002/003
B120/B203

Various types of stepped shafts 100-500 mm long and 25-80 mm in diameter can be made with the 1A62 turning lathe. These turning lathes can be automatized by installing a KST-1 hydrocopying slide and a pneumatic automatic system. The efficiency of capstan lathes is increased by the attachment of radial multistage stops, copying devices, and multiple tool holders for thread cutting. Milling machines can be provided with multispindle heads, drilling machines with detachable turret heads. Sets of machines are conveniently composed by the assembly-type system. With the introduction of a preset course, the output of a turning lathe can be increased by the 2-2.5-fold; one worker can attend to 2-3 semiautomatic lathes. The following operations can be made with a 1P326 capstan lathe: roughing and smoothing, profiling, drilling, countersinking, reaming, facing and grooving, knurling, and cutting off. 60,000 rubles a year were saved on four machines by introduction of multi-machine operation. With the principle of group machining, the production by assembly lines is also possible in small series. Differences in the technological working plan may occur due to differently long machining of single workpieces within a group, and subgroups are formed. It is

Card 2/5

20031

G/018/61/010/005/002/003
B120/B203

11100

also 1413

AUTHOR: Mitrofanov, S. P., Doctor, Lenin Prize Winner (Leningrad)

TITLE: Problems of mechanization and automation under conditions of group manufacturing

PERIODICAL: Feingerätetechnik, v. 10, no. 5, 1961, 199-208

TEXT: Until a few years ago, the application of automatic production and machining methods was for economic reasons only possible with mass-produced articles. If, in the production of numerous small series, workpieces similar in design and technology are assembled into groups, each of these groups can be processed by one machine with quick adjustment. The article describes how it is possible to attain gradual automation of the production of small series. The first step of the reorganization of production for group machining is the reconstruction of available machines. Fig. 3 shows a diagram of the machining of a single part on a turning lathe, all working steps being completed in two operations. For this purpose, the lathe was equipped with an 8-step turret-head, swiveling cross slide, and longitudinal and transverse stops.

Card 1/5

MITROPANOV, Sergey Petrovich; KUCHER, I.M., red.; FREGER, D.P., red. izd-va;
GVIRTS, V.L., tekhn. red.

[Mechanization and automation under multiple machining conditions]
Voprosy mekhanizatsii i avtomatizatsii v usloviakh gruppovogo pro-
izvodstva; tekst doklada na Vserossiiskom soveshchani po gruppovoi
obrabotke. Leningrad, Leningr. Dom nauchno-tekhn. propagandy, 1961.
75 p. (MIRA 14:7)

(Automation)

(Industrial management)

S/146/60/003/01/001/016
D002/D006

The Tasks of Instrument Builders

out complete automation and mechanization in three Leningrad plants in 1963: viz., Leningradskiy elektromekhanicheskiy zavod (Leningrad Electro-Mechanical Plant), Petrodvortsovy chasovoy zavod (Petrodvorets Watch Plant), and the Zavod "Soyuz" ("Soyuz" Plant). It is pointed out that the work of separate scientific-research institutes and planning organizations should be coordinated in order to avoid duplication of efforts. For this reason, scientific-technical coordination centers should be created. Technical problems should also be dealt with by scientific-technical societies to which approximately 800,000 scientists, engineers, technicians and workers-innovators belong. In Leningrad only, the 19 existing scientific-technical branch societies have more than 1100 local organizations and more than 54,000 NTO members, a number including 63 NTO instrument building organizations with 3000 members and 94 radio engineering and electrocommunication organizations with 4300 members.

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D002/D006

The Tasks of Instrument Builders

2.6 times an amount including a 4.5 to 4.7 times increase in computing devices, a more than 5 times increase in power control devices, an almost 3 times increase in electrical measuring devices, a 2.8 times increase in radio-measuring devices, etc. The Leningrad industrial region is the most important because it manufactures almost all kinds of instruments. It is pointed out that a series of these instruments and devices do not meet the requirements of modern technology, and must be replaced. In the next 2-3 years, 23% of devices must be modernized and replaced 16% of them by new ones released by the Leningrad industry in 1959. More than 1000 new devices and automation means must be developed and their series manufacture organized. An important task of the instrument builders of not only Leningrad but the whole country, is the maximum standardization of all instruments and the creation of unified sets permitting the development of control system using standard units and normalized components. The Upravleniye priborostroitel'noy promyshlennosti (the Administration of the Instrument Industry) at Lensovmarkhoz is planning to carry

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DOC2/DO06

28(4)(5)

AUTHOR: Mitrofanov, S.P.

TITLE: The Tasks of Instrument Builders

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye, 1960,
Vol. 3, Nr 1, pp 3-9 (USSR)

ABSTRACT: This is a general review of the development of instrument building in the Soviet Union and especially in the Leningrad administrative region. In 1959, the instrument and machine manufacturers of Leningrad produced more than 600 new machine and instrument types against 570 foreseen by the plan. The Admiralteyskiy zavod (Admiralty Plant) released the first atomic icebreaker, the "Lenin". A short statistical comparison of the production in the Soviet Union and the U.S.A., is given: Between 1950 and 1957, instrument manufacture was increased by 13 times in the USSR and in the U.S.A. only by 3 times. Nevertheless, instrument building still lags in the USSR because it fails to meet the requirements for the automation of industrial processes. Total industrial production is to be increased by 80% according to the plan, while instrument production must be increased by 2.5 -

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Scientific-Industrial Conference on "Advanced Machine and Instrument Manufacturing Processes," held in 1958. The papers have been revised in the light of recent developments in the field. A chapter is devoted to the automation and mechanization of the industry. Soviet and non-Soviet references accompany some of the chapters.

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PART I. THEORY AND PRACTICE IN MANUFACTURING PROCESSES
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- Ch. I. The Elements of Typification of Manufacturing Processes in Machine Building [F.S. Dem'yanyuk, Doctor of Technical Sciences, Professor]
1. Problems connected with the typification of manufacturing processes
 2. Basic principles of classification of parts and typification of their manufacturing processes

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MITROFANOV, S. P.

PHASE I BOOK EXPLOITATION

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Sovremennoye sostoyaniye i napravleniya razvitiya tekhnologii mashinostroyeniya i priborostroyeniya (Present State of the Manufacturing Processes in the Machine and Instrument Industries and Trends for Development) Moscow, Mashgiz, 1960. 563 p. 5,000 copies printed.

Ed.: Anatoliy Nikolayevich Gavrilov, Doctor of Technical Sciences, Professor; Managing Ed. for Literature on Machine Building and Instrument Construction (Mashgiz): N.V. Pokrovskiy, Engineer; Ed. of Publishing House: G.F. Kochetova, Engineer; Tech. Eds.: V.D. El'kind and A.Ya. Tikhanov.

PURPOSE: This book is intended for technical and scientific personnel in the machine and instrument industries and for students and teachers of schools of higher education.

COVERAGE: The book deals with current theory and practice in the manufacturing processes of the machine and instrument industries and includes discussions on trends for development. The physical nature of the processes and their technical-economic features and possibilities are considered. Particular attention is given to new and progressive processing (supersonic machining, electric machining, cold pressworking, precision casting, precision pressing, new methods of welding, etc.). The book consists of papers presented at the All-Union

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MITROFANOV, S.P., kand.tekhn.nauk, laureat Leninskoy premii, red.;
AZAROV, A.S., kand.tekhn.nauk, red.; GUTNER, M.G., inzh., red.;
KAMNEV, P.V., kand.tekhn.nauk, red.; KUTAY, A.K., kand.tekhn.
nauk, red.; REZNIKOV, R.A., inzh., red.; SHALGIN, G.N., kand.
ekon.nauk, red.; SIMONOVSKIY, N.Z., red.izd-va; SPERANSKAYA,
O.V., tekhn.red.

[Group techniques in the manufacture of machinery and instruments]
Gruppovaya tekhnologiya v mashinostroenii i priborostroenii. Moskva,
Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 378 p.
(MIRA 13:9)

(Machinery industry)

(Instrument manufacture)

Equipment for Group Machining of (Cont.)	SOV/5676	
Yemel'yanov, M. A. Jigs and Fixtures for Group Machining in the Milling, Broaching, and Turning of Parts		130
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Examples are given for the grouping of parts according to shape or special processing features. Constructions for group-machining fixtures are presented, and certain problems encountered in parts machining, fixture design, and cutting regimes are discussed. Calculations relating to the economic effectiveness of various types of jigs and fixtures are included in some of the articles. No personalities are mentioned. There are no references.

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Foreword

Mitrofanov, S. P. [Candidate of Technical Sciences, Lenin Prize Winner]. Methods of Designing Group-Machining Fixtures, and Examples of Their Application

Azarov, A. S. and S. T. Gutkin. Fixtures for Group Machining Various Parts of Accessories

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MITRELFANOV, S.P.

PHASE I BOOK EXPLOITATION SOV/5676

Azarov, A. S., Candidate of Technical Sciences, Docent, ed.

Prisposobleniya dlya gruppovoy obrabotki detaley; opyt nekotorykh leningradskikh zavodov (Equipment for Group Machining of Machine Parts; Experience of Certain Leningrad Plants) [Leningrad] Lenizdat, 1960. 254 p. 3,000 copies printed.

Scientific Ed.: P. I. Bulovskiy, Doctor of Technical Sciences, Professor; Ed.: A. E. Lepin; Tech. Ed.: R. G. Pol'skaya.

PURPOSE : This collection of articles is intended for technical personnel and skilled workers in machine and instrument plants; it may also be used by students in schools of higher technical education and tekhnikums.

COVERAGE: Basic principles in the design of universal, universal-setup, and group-machining jigs and fixtures are stated. This equipment is also considered from the standpoint of its application in several Leningrad machine and instrument plants.

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28(5)

PHASE I BOOK EXAMINATION

SOV/2895

Mitrofanov, Sergey Petrovich, Candidate of Technical Sciences

Nauchnyye osnovy gruppovoy tekhnologii (Scientific Fundamentals of Group Manufacturing Methods) [Leningrad] Lenizdat, 1959.
434 p. 20,000 copies printed.

Scientific Ed.: M. A. Anserov; Eds.: N. Z. Simanovskiy and P. I. Malyavko; Tech. Ed.: P. S. Smirnov.

PURPOSE: This book is intended for engineers and technicians and may be used as a handbook by students of industrial trades.

COVERAGE: The book gives a detailed and systematic treatment of a group method of manufacturing. Methods of setting up technical group processes for turning lathes, turret lathes, milling machines, drilling machines, automatic turning lathes, and also in-parts production, die casting, and hot drop forging are reviewed. Special attention has been given to the problem of setting up group production lines. The book also deals with the

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